

King Tao Jason Ng



PROFILE SUMMARY

I am an experienced data scientist with expertise in data science, machine learning, natural language processing, and software engineering, with a strong focus on ensuring compliance with financial market regulations.

CONTACT DETAILS

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PERSONAL INFORMATION

Citizenship: **Australian**

Languages: **English, Chinese**

SKILLS

- Leadership, People Management
- Project Management, Business Analysis, Vendor Management
- Data Governance
- Machine Learning, Statistics, Natural Language Processing
- Software Engineering, Software Quality Assurance
- Databricks, Elastic Stack, Microsoft Power BI
- Python, R, C, C++, KDB+/Q

EXPERIENCE

SENIOR DATA SCIENTIST

Jul 2022 - Present

Chief Data and Analytics Office, ASIC

- ◇ Led the implementation of the Licensing ML Proof of Concept, Knowledge Management Metadata Extraction, and Lessons Learned Lite Review
- ◇ Supervised and mentored data analysts, fostering professional growth and skill development
- ◇ Provided leadership in the ML framework, ensuring best practices in analytics and machine learning

SESSIONAL TEACHING ACADEMIC

Feb 2022 - Jun 2022

School of Computing, Macquarie University

- ◇ Tutored and led coursework for Document Processing and Semantic Technologies (COMP3220)

SENIOR ANALYTICS PLATFORM OWNER

Jul 2021 - Jul 2022

Chief Data and Analytics Office, ASIC

- ◇ Led the promotion and management of Databricks, RStudio Servers, Python Servers, and the Data Science Lab, ensuring optimal performance
- ◇ Proposed the Databricks roadmap, outlining onboarding strategies, workflow setup, and best practices to enhance efficiency and collaboration among data analysts

DATA SCIENTIST

Oct 2019 - Jul 2021

Chief Data and Analytics Office, ASIC

- ◇ Led the development and implementation of NLP Prospectuses, leveraging NLP to extract insights and improve document analysis

DATA SCIENTIST

Aug 2017 - Jun 2019

School of Computer Science, University of Sydney

- ◇ Designed and developed a Researcher Collaboration Recommendation System using Python and D3.js, enabling data-driven connections and enhancing research networking through interactive visualizations

ANALYST

Jul 2016 - Oct 2019

Market Infrastructure, ASIC

- ◇ Proposed and implemented a Wash Trade Detection system using KDB+/Q, enhancing market surveillance and regulatory compliance
- ◇ Designed and developed a Market Data Analytics Hub using the Elastic Stack, enabling real-time data analysis and improved decision-making

ANALYST

Jan 2013 - Jul 2016

Market & Participant Supervision, ASIC

- ◇ Led the development and implementation of a Market Analysis and Intelligence Surveillance System, improving market cleanliness
- ◇ Drafted the comprehensive Technology and Analytics Capability Review, assessing current capabilities and identifying opportunities in data analytics

ACHIEVEMENTS

- **Australia Day Achievement Award**, ASIC, Launched Market Analysis and Intelligence Surveillance System
- **ARI Award**, Aristocrat Technologies Australia
- **Competent Communicator**, Toastmasters International

INTRANET PROGRAMMER

Oct 2011 - Dec 2011

Information and Communications Technology, Scots College

- ◇ Oversaw the maintenance and management of IBM DB2, ensuring database reliability, performance, and security

DOMAIN ANALYST

Mar 2011 - May 2011

Wagering Technology, Tabcorp Holdings Limited

- ◇ Led and managed requirements gathering for the Customer Loyalty Project, ensuring alignment with business objectives and stakeholder needs

SOFTWARE ENGINEER

Jul 2008 - Mar 2011

Studio Development, Aristocrat Technologies Australia

- ◇ Designed and developed gaming applications using C and C++, creating engaging user experiences

GRADUATE SOFTWARE ENGINEER

Jul 2007 - Jul 2008

Platform Development, Aristocrat Technologies Australia

- ◇ Designed and developed networking protocols for casino management systems using C and C++, ensuring secure and efficient communication across the platform

GRADUATE TEST ENGINEER

Jan 2007 - Jul 2007

Software Integrity Testing, Aristocrat Technologies Australia

- ◇ Developed comprehensive test plans and executed unit and integration tests, ensuring high-quality software delivery and system reliability

EDUCATION

MASTER OF RESEARCH, Macquarie University

Jul 2021 - Oct 2023

- ◇ Thesis titled *Identifying Causal Directions from Text: Unsupervised Learning using Bayesian Framework*

MASTER OF DATA SCIENCE, University of Sydney

Mar 2016 - Jul 2019

- ◇ Thesis titled *Academic Capability Mapping*

MASTER OF ECONOMICS, University of Sydney

Mar 2008 - Jul 2012

MASTER OF INFORMATION TECHNOLOGY, UNSW

Jul 2005 - Dec 2007

BACHELOR OF SCIENCE, UNSW

Jul 2001 - Mar 2005

PUBLICATIONS

Exploring Causal Directions through Word Occurrences: Semi-supervised Bayesian Classification Framework, **King Tao Jason Ng** and Diego Mollá. *The 21st Annual Workshop of the Australasian Language Technology Association, Melbourne, VIC, Australia, November 29 - December 1, 2023*

Hierarchical Word Mover Distance for Collaboration Recommender System, Chao Sun, **King Tao Jason Ng**, Philip Henville and Roman Marchant. *The 16th Australasian Data Mining Conference, AusDM 2018, Bathurst, NSW, Australia, November 28 - 30, 2018, Revised Selected Papers*